

Rec'd PST/PTO 27 DEC 2004

10/519232

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
22 January 2004 (22.01.2004)

PCT

(10) International Publication Number  
WO 2004/006747 A2

- (51) International Patent Classification<sup>7</sup>: A61B
- (21) International Application Number: PCT/IL2003/000575
- (22) International Filing Date: 10 July 2003 (10.07.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/395,310 12 July 2002 (12.07.2002) US
- (71) Applicant (for all designated States except US): ACE APPLIED COGNITIVE ENGINEERING LTD. [IL/IL]; Poleg Industrial Park, P.O. Box 8503, 42 504 Natania (IL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): GREENSHPAN, Ya'akov [IL/IL]; 12 HaGdud HaIvri Street, 43 560 RaAnana (IL). HUPERT-GRAFF, GII [IL/IL]; 4 Refidim Street, 69 982 Tel Aviv (IL). ARMONY-SHIMONI, Lilach [IL/IL]; 62 HaRofe Street, 34 367 Haifa (IL). DANKNER, Danny [IL/IL]; 46 HaChoresh Street, 46 910 Kfar Shmaryahu (IL).
- (74) Agent: G. E. EHRLICH (1995) LTD.; 28 Bezalel Street, 52 521 Ramat Gan (IL).

(81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYSTEM AND METHOD FOR EVALUATION AND TRAINING USING COGNITIVE SIMULATION

(57) Abstract: A system and method for training a subject for control processes, preferably for a particular task. The task may optionally comprise a sport, such as basketball for example; additionally or alternatively, the task may comprise an area of skills to be improved, such as general improvement of physical reflexes and/or reactions. The present invention enables cognitive skills associated with the task to be improved, without requiring physical fidelity to the physical actions that are normally performed during the actual task. Improving these cognitive skills results in improved control processes during performance of the actual task by the subject.

WO 2004/006747 A2